

REMARKS

Applicants express appreciation to the Examiner for consideration of the subject patent application. This Amendment is in response to the Office Action mailed July 16, 2003. Claims 30-32 were originally presented. Claim 30 was rejected. Applicants have amended Claim 30 to address concerns of the examiner. Claims 31-32 were acknowledged as containing allowable subject matter to, but rejected as dependent upon a rejected base claim. Claims 34-35 were added to reflect allowable subject matter as indicated by the Examiner. Claim 33 is new.

The title was objected to. The title has been amended to address the concerns raised by the Examiner.

Objection to Title

The Examiner has required a new title asserting that the original title of the invention is not descriptive. Applicants have amended the title to read as follows: -- MULTI-SECTION FOLDABLE MEMORY DEVICE --.

Claim Rejections - 35 U.S.C. § 103

Claim 30 was rejected under 35 U.S.C. § 103 as being unpatentable over Nicewarner et al., U.S. Patent 5,776,797 in view of Chauvel, U. S. Patent No. 4,623,986. Claim 30 has been amended to address the Examiner's concerns and to more accurately claim the present invention. In particular, Claim 30 has been amended to clarify that memory cells of a memory array are formed across the layers of the memory array as described in the Specification at page. 11, lines 12-19. No new matter has been added by the amendments.

With respect to Claim 30, Applicants respectfully submit that the Nicewarner et al. and Chauvel references, when combined, do not teach or suggest all of the elements of Claim 30. Specifically, the asserted combination of references does not teach or suggest:

- a **first layer** of a memory array ... compris[ing] a first plurality of conductor lines;
- a **second layer** of a memory array ... compris[ing] a second plurality of conductor lines; and
- a layer of semiconductor materials ...

wherein the first and second sections are configured to be **folded** ... wherein the **first and the second plurality of conductor lines are arranged to interact with each other** and the layer of semiconductor materials **upon folding to form at least one memory cell** spanning the first and the second layers of memory array at intersections of the first and the second plurality of conductor lines

as recited in amended Claim 1 (emphasis added). Stated another way, Nicewarner et al. does not teach or suggest the forming of a memory array by folding two layers of conductors on *different layers* to form cells of the memory array at intersections of the conductors (Specification, page 11, lines 14-22). Chauvel does not overcome this deficiency, in that Chauvel addresses the integration of matrixes of memory cells *on semiconductor chips* (Col. 1, lines 52-54). Stated another way, Chauvel does not teach or suggest the forming of a memory array by folding two layers of conductors on *different layers to form cells of the memory array at intersections of the conductors*. For at least these reasons, Applicants believe Claim 30 is allowable over the asserted combination of Nicewarner et al. and Chauvel and requests reconsideration of the obviousness rejection.

New Claim 33 is dependent on Claim 30, and being narrower in scope, Applicants submit that Claim 33 is allowable for at least the above-articulated reasons.

Claim Objections

Claims 31-32 were objected to as being dependent upon a rejected base claim, but were acknowledged to contain allowable subject matter. Claims 31-32 are dependent on Claim 30. For at least the above-articulated reasons, Applicants believe Claims 31-32 are allowable and requests reconsideration of the objection.

Allowable Subject Matter

Claims 31-32 were acknowledged to contain subject matter that would be allowable if rewritten in independent form including all the limitations of the base claim and any intervening claims. Original Claim 31 has been rewritten as new Claim 34 to include both the limitations of base Claim 30 and dependent Claim 31. Original Claim 32 has been rewritten as new Claim 35 to depend on Claim 34 and to include the limitations of Claim 32. As Claims 34-35 include

previously acknowledged allowable subject matter, Applicants believe Claims 34-35 are in condition for allowance.

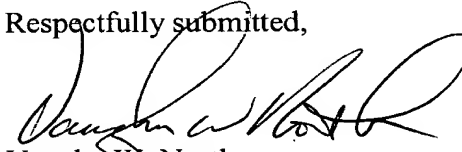
CONCLUSION

In light of the above, Applicants respectfully submit that pending Claims 30-35 are now in condition for allowance. Therefore, Applicant requests that the rejections and objections be withdrawn, and that the claims be allowed and passed to issue. If any impediment to the allowance of these claims remains after entry of this Amendment, the Examiner is encouraged to call Vaughn North at (801) 566-6633 so that such matters may be resolved as expeditiously as possible.

The Commissioner is hereby authorized to charge any additional fee or to credit any overpayment in connection with this Amendment to Deposit Account No. 08-2025.

DATED this 14 day of Nov, 2003.

Respectfully submitted,



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